Comparison of s quences from BSG1037 (SEQ ID NO.:3) and BSG1057 (SEQ ID NO.:4) in the 30kDa movement protein coding r gion (nts 4903-5709). Non-identities are indicated by \_ and identities are indicated by \*.

1037	ATGGCTCTAGTTGTTAAAGGAAAAGTGAATATCAATGAGTTTATCGACCT
1057	ATGGCTCTAGTTGTTAAAGGAAAAGTGAATATCAATGAGTTTATCGACCT
7031	****
٠.	
1027	GACAAAAATGGAGAAGATETTACCGTCGATGTTTACCCCTGTAAAGAGTG
1037	GACAAAAATGGAGAAGATCTTACCGTCGATGTTTACCCCTGTAAAGAGTG
1057	CVCWWWIGORIWOUTCITUOCGICONIGITITOOONG AND
	***
•	TTATGTGTTCCAAAGTTGATAAAATAATGGTTCATGAGAATGAGTCATTG
1037	TTATGTGTTCCAAAGTTGATAAAATAATGGTCATGAGAATGAGTTC
1057	TTATGTGTTCCAAAGTTGATAAAATAATGGTTCATGAGAATGAGTCATTG
	**********
1037	TCAGGGGTGAACCTTCTTAAAGGAGTTAAGCTTATTGATAGTGGATACGT
1057	TCAGGGGTGAACCTTCTTAAAGGAGTTAAGCTTATTGATAGTGGATACGT
	*****************
*	
1037	CTGTTTAGCCGGTTTGGTCGTCACGGGCGAGTGGAACTTGCCTGACAATT
1057	CTGTTTAGCCGGTTTGGTCGTCACGGGCGAGTGGAACTTGCCTGACAATT
Toat	*******
1027	GCAGAGGAGGTGTGAGCGTGTGTCTGGTGGACAAAAGGATGGAAAGAGCC
1037	GCAGAGGAGGTGTGAGCGTGTGTCTGGTGGACAAAAGGATGGAAAGAGCC
1057	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
	****
	GACGAGGCCACTCTCGGATCTTACTACACAGCAGCTGCAAAGAAAAGATT
1037	GACGAGGCCATTCTCGGATCTTACTACACAGCAGCTGCAAAGAAAAGATT
1057	GACGAGGCCATTCTCGGATCTTACTACAGCAGCAGCAGCAGCAGAAAAAAAA
	***
	TCAGTTCAAGGTCGTTCCCAATTATGCTATAACCACCCAGGACGCGATGA
1037	TCAGTTCAAGGTCGTTCCCAATTATGCTATAACCACCCAGGACGCGATGA
1057	TCACTTCAAGGTEGTTCCCAATTATGCTATAACCACCCACGGGGGGGGGG
	· · · · · · · · · · · · · · · · · · ·
	TO THE PROPERTY OF THE PROPERT
1037	AAAACGTCTGGCAAGTTTTAGTTAATATTAGAAATGTGAAGATGTCAGCG
1057	GAAACGTCTGGCAAGTTTTAGTTAATATTAGAAATGTGAAGATGTCAGCG
•	由由自由由自由中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中
1037	GGTTTCTGTCCGCTTTCTCTGGAGTTTGTGTCGGTGTGTATTGTTTATAG
1057	COTTTCTGTCCGCTTTCTCTGGAGTTTGTGTCGGTGTGTATTGTTTATAG
	***
•	
1037	AAATAATATAAAATTAGGTTTGAGAGAGAGATTACAAACGTGAGAGACG
1057	ARATRATATARAATTAGGTTTGAGAGAGAAGATTACAAACGTGAGAGACG
	****
1037	GAGGGCCCATGGAACTTACAGAAGAAGTCGTTGATGAGCTCATGGAAGAT
1057	GAGGGCCCATGGAACTTACAGAAGAAGTCGTTGATGAGTTCATGGAAGAT
	*****
1037	GTCCCTATGTCGATCAGGCTTGCAAAGTTTCGATCTCGAACCGGAAAAAA
1057	GTCCCTATGTCGATCAGGCTTGCAAAGTTTCGATCTCGAACCGGAAAAAA
1037	
	**************************************

1037	GAGTGATGTCCGCAAAGGGAAAAATAGTAGTAGTGATCGGTCAGTGCCGA
1057	GAGTGATGTCCGCAAAGGGAAAAATAGTAGTAGTGATCGGTCAGTGCCGA
	*************
1037	ACAAGAACTATAGAAATGTTAAGGATTTTGGAGGAATGAGTTTTAAAAAG
1057	ACAAGAACTATAGAAATGTTAAGGATTTTGGAGGAATGAGTTTTAAAAAG
	*************
1037	AATAATTTAATCGATGATGATTCGGAGGCTACTGTCGCCGAATCGGATTC
1057	AATAATTTAATCGATGATGATTCGGAGGCTACTGTCGCCGAATCGGATTC
	***********
1037	GTTTTAA
1057	GTTTTAA
	*****

Comparison of sequences from BSG1037 (SEQ ID NO.:5) and BSG1057 (SEQ ID NO.:6) in the 30kDa movement protein (aal-268).

Non-identities are indicated by \_ and identities are indicated by \*.

1037	WANTED THE PLOT TOWNERS TO DOWN OF THE PROPERTY OF THE PROPERT
	MALVVKGKVNINEFIDLTKMEKILPSMFTPVKSVMCSKVDKIMVHENESL
1057.	MALVVKGKVNINEFIDLTKMEKILPSMFTPVKSVMCSKVDKIMVHENESL
	**************
1037	SGVNLLKGVKLIDSGYVCLAGLVVTGEWNLPDNCRGGVSVCLVDKRMERA
1057	SGVNLLKGVKLIDSGYVCLAGLVVTGEWNLPDNCRGGVSVCLVDKRMERA
	***********
1037	DEATLGSYYTAAAKKREQFKVVPNYAITTQDAMKNVWQVLVNIRNVKMSA
1057	DEAILGSYYTAAAKKRFQFKVVPNYAITTQDAMRNVWQVLVNIRNVKMSA
	*** ************
1037	GFCPLSLEFVSVCIVYRNNIKLGLREKITNVRDGGPMELTEEVVDEFMED
1057	GFCPLSLEFVSVCIVYRNNIKLGLREXITHVRDGGPMELTEEVVDEFMED
	************
1037	vpmsirlakfrsrtgkksdvrkgknsssdrsvpnknyrnvkdfggmsfkk
1057	vpmsirlakfrsrtgkksdvrkgknsssdrsvpnknyrnvkdfggmsfkk
	######################################
1037	NNLIDDDSEATVAESDSF
1057	NNLIDDDSEATVAESDSF
	*****

DNA sequence 10403 b.p. GTATTTTACAA ... CGACTCACTATA . circular

126/183 reading frame begins at 69, 3417 is suppressible stop codon, and ends at 4919.30K

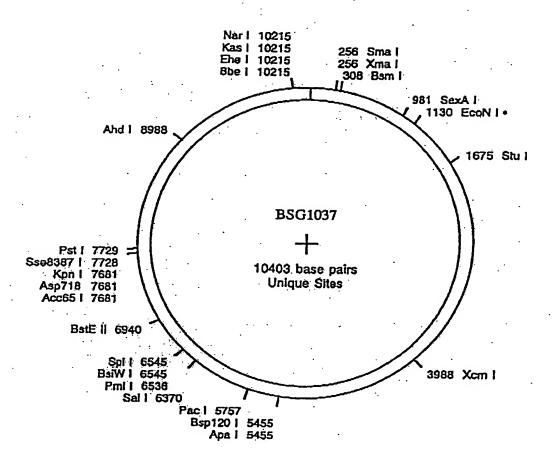


Figure 3

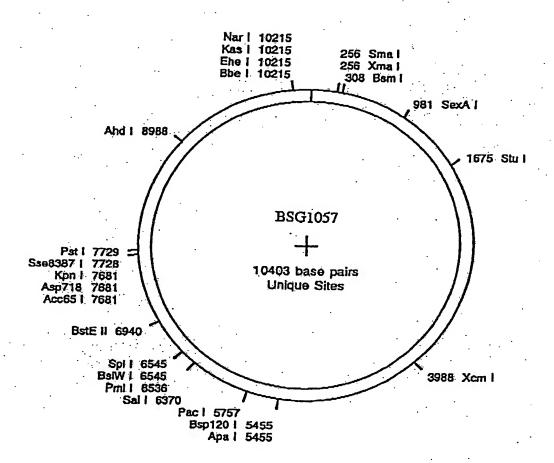


Figure 4

## Complete sequence of BSG 1037 (SEQ ID NO.: 1)

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TGAGGAAAAATGTCCATACGTGCTATGCCGCTTTCCACTTCTCCGAGAACCTGCTTC
TTGAAGATTCATGCGTCAATTTG

GACGAAATCAACGCGTGTTTTTCGCGCGATGGAGACAAGTTGACCTTTTCTTTTGCA TCAGAGAGTACTCTTAATTACTG

TTTTAGTCACCAGAGTTAATACCTGGTTTTGTAAGTTTTCTAGAATAGATACTTTTCT TTTGTACAAAGGTGTGGCCCAT

AAAAGTGTAGATAGTGAGCAGTTTTATACTGCAATGGAAGACGCATGGCATTACAA AAAGACTCTTGCAATGTGCAACAG

CGAGAGAATCCTCCTTGAGGATTCATCATCAGTCAATTACTGGTTTCCCAAAATGAG GGATATGGTCATCGTACCATTAT

TCGACATTTCTTTGGAGACTAGTAAGAGGACGCGCAAGGAAGTCTTAGTGTCCAAGG ATTTCGTGTTTACAGTGCTTAAC

CATTAACGGTGTGACAGCGAGGTCCGAATGGGATGTGGACAAATCTTTGTTACAATCCTTGTCCATGACGTTTTACCTGC

ATACTAAGCTTGCCGTTCTAAAGGATGACTTACTGATTAGCAAGTTTAGTCTCGGTTCGAAAACGGTGTGCCAGCATGTG

TGGGATGAGATTTCGCTGGCGTTTGGGAACGCATTTCCCTCCGTGAAAGAGAGGCTC TTGAACAGGAAACTTATCAGAGT

GGCAGGCGACGCATTAGAGATCAGGGTGCCTGATCTATATGTGACCTTCCACGACA GATTAGTGACTGAGTACAAGGCCT

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AGCGAAGGTTATAGTCGCGGTCATGAGCAATGAGAGCGGTCTGACTCTCACATTTGA ACGACCTACTGAGGCGAATGTTG

CGCTAGCTTTACAGGATCAAGAGGAAGGCTTCAGAAGGTGCATTGGTAGTTACCTCAA GAGAAGTTGAAGAACCGTCCATG

AAGGGTTCGATGGCCAGAGGAGAGTTACAATTAGCTGGTCTTGCTGGAGATCATCCG GAATCGTCCTATTCTAAGAACGA

GGAGATAGAGTCTTTAGAGCAGTTTCATATGGCGACGGCAGATTCGTTAATTCGTAA GCAGATGAGCTCGATTGTGTACA

CGGGTCCGATTAAAGTTCAGCAAATGAAAAACTTTATCGATAGCCTGGTAGCATCAC TATCTGCTGCGGTGTCGAATCTC

GTCAAGATCCTCAAAGATACAGCTGCTATTGACCTTGAAACCCGTCAAAAGTTTGGA GTCTTGGATGTTGCATCTAGGAA

GTGGTTAATCAAACCAACGGCCAAGAGTCATGCATGGGGTGTTGTTGAAACCCACGCGAGGAAGTATCATGTGGCGCTTT

TGGAATATGATGAGCAGGTGTGGTGACATGCGATGATTGGAGAAGAGTAGCTGTT AGCTCTGAGTCTGTTTATTCC

GACATGGCGAAACTCAGAACTCTGCGCAGACTGCTTCGAAACGGAGAACCGCATGT CAGTAGCGCAAAGGTTGTTCTTGT

GGACGGAGTTCCGGGCTGTGGAAAAACCAAAGAAATTCTTTCCAGGGTTAATTTTGA TGAAGATCTAATTTTAGTACCTG

GGAAGCAAGCCGCGAAATGATCAGAAGACGTGCGAATTCCTCAGGGATTATTGTG GCCACGAAGGACAACGTTAAAACC

 ${\tt GTTGATTCATGATGAATTTTGGGAAAAGCACACGCTGTCAGTTCAAGAGGTTATCATTGATGAAGGGTTGATGTT}$ 

 ${\tt GCATACTGGTTGATTTTCTTGTGGCGATGTCATTGTGCGAAATTGCATATGTT}\\ {\tt TACGGAGACACACAGCAGATTC}$ 

CATACATCAATAGAGTTTCAGGATTCCCGTACCCCGCCCATTTTGCCAAATTGGAAG TTGACGAGGTGGAGACACGCAGA

ACTACTCTCCGTTGTCCAGCCGATGTCACACATTATCTGAACAGGAGATATGAGGGC
TTTGTCATGAGCACTTCTTCGGT

 ${\tt TAAAAAGTCTGTTTCGCAGGAGATGGTCGGCGGAGCCgCCGTGATCAATCCGATCTCAAAACCCTTGCATGGCAAGATCT}$ 

TGACTTTTACCCAATCGGATAAAGAAGCTCTGCTTTCAAGAGGGTATTCAGATGTTC ACACTGTGCATGAAGTGCAAGGC

GAGACATACTCTGATGTTTCACTAGTTAGGTTAACCCCTACACCGGTCTCCATCATTG CAGGAGACAGCCCACATGTTTT

GGTCGCATTGTCAAGGCACACCTGTTCGCTCAAGTACTACACTGTTGTTATGGATCC TTTAGTTAGTATCATTAGAGATC

TAGAGAAACTTAGCTCGTACTTGTTAGATATGTATAAGGTCGATGCAGGAACACAAT AGCAATTACAGATTGACTCGGTG

TTCAAAGGTTCCAATCTTTTTGTTGCAGCGCCAAAGACTGGTGATATTTCTGATATGC AGTTTTACTATGATAAGTGTCT

CCCAGGCAACAGCACCATGATGAATAATTTTGATGCTGTTACCATGAGGTTGACTGA CATTTCATTGAATGTCAAAGATT GCATATTGGATATGTCTAAGTCTGTTGCTGCGCCTAAGGATCAAATCAAACCACTAA TACCTATGGTACGAACGGCGGCA

GAAATGCCACGCCAGACTGGACTATTGGAAAATTTAGTGGCGATGATTAAAAGAAA CTTTAACGCACCCGAGTTGTCTGG

CATCATTGATATTGAAAATACTGCATCTTTGGTTGTAGATAAGTTTTTTGATAGTTAT TTGCTTAAAGAAAAAAGAAAAC

CAAATAAAAATGTTTCTTTGTTCAGTAGAGAGTCTCTCAATAGATGGTTAGAAAAGC AGGAACAGGTAACAATAGGCCAG

CTCGCAGATTTTGATTTTGTGGATTTGCCAGCAGTTGATCAGTACAGACACATGATT AAAGCACAACCAAACAAAGTT

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CAAATCTCAGAATGAATTCCACTGTGCAGTAGAATACGAGATCTGGCGAAGATTGG GTTTCGAAGACTTCTTGGGAGAAG

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TCGATGCTTCCGATGGAGAAAAT

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CGAATCTTATGTGGAATTTTGAAGCAAAACTGTTTAAAAAAACAGTATGGATACTTTT GCGGAAGATATGTAATACATCAC

GACAGAGGATGCATTGTGTATTACGATCCCCTAAAGTTGATCTCGAAACTTGGTGCT AAACACATCAAGGATTGGGAACA

CTTGGAGGAGTTCAGAAGGTCTCTTTGTGATGTTGCTGTTTCGTTGAACAATTGTGCG TATTACACACAGTTGGACGACG

CTTTTTAGAAGTTTGTTTATAGATGGCTCTAGTTGTTAAAGGAAAAGTGAATATCAA TGAGTTTATCGACCTGACAAAAA

TGGAGAAGATCTTACCGTCGATGTTTACCCCTGTAAAGAGTGTTATGTGTTCCAAAG TTGATAAAATAATGGTTCATGAG

AATGAGTCATTGTCAGGGGTGAACCTTCTTAAAGGAGTTAAGCTTATTGATAGTGGA TACGTCTGTTTAGCCGGTTTGGT

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TGGTGGACAAAAGGATGGAAAGAG

CCGACGAGGCCACTCTCGGATCTTACTACACAGCAGCTGCAAAGAAAAAGATTTCAG TTCAAGGTCGTTCCCAATTATGCT

ATAACCACCCAGGACGCGATGAAAAACGTCTGGCAAGTTTTAGTTAATATTAGAAAT GTGAAGATGTCAGCGGGTTTCTG

ACGTGAGAGACGGAGGCCCATGGAACTTACAGAAGAAGTCGTTGATGAGTTCATGGAAGATGTCCCTATGTCGATCAGG

CTTGCAAAGTTTCGATCTCGAACCGGAAAAAAGAGTGATGTCCGCAAAGGGAAAAA TAGTAGTAGTGATCGGTCAGTGCC

CTACTGTCGCCGAATCGGATTCGTTTTAAATAGATCTTACAGTATCACTACTCCATCT CAGTTCGTGTTCTTGTCATTAA

TTAAATGGCTAGCAAAGGAGAAGAACTTTTCACTGGAGTTGTCCCAATTCTTGTTGA ATTAGATGGTGATGTTAATGGGC

ACAAATTTTCTGTCAGTGGAGAGGTGAAGGTGATGCTACATACGGAAAGCTTACCC TTAAATTTATTTGCACTACTGGA

AAACTACCTGTTCCATGGCCAACACTTGTCACTACTTTCTCTTATGGTGTTCAATGCT TTTCCCGTTATCCGGATCATAT

GAAACGCATGACTTTTCAAGAGTGCCATGCCCGAAGGTTATGTACAGGAACGCA CTATATCTTCAAAGATGACGGGA

ACTACAAGACGCGTGCTGAAGTCAAGTTTGAAGGTGATACCCTTGTTAATCGTATCG AGTTAAAAGGTATTGATTTTAAA

GAAGATGGAAACATTCTCGGACACAAACTCGAGTACAACTATAACTCACACAATGT ATACATCACGGCAGACAAACAAAA

GAATGGAATCAAAGCTAACTTCAAAATTCGCCACAACATTGAAGATGGATCCGTTC AACTAGCAGACCATTATCAACAAA

ATACTCCAATTGGCGATGGCCCTGTCCTTTTACCAGACAACCATTACCTGTCGACAC AATCTGCCCTTTCGAAAGATCCC

GCATAGTGTTTTTCCCTCCACTTAAATCGAAGGGTTGTGTCTTGGATCGCGCGGGTC AAATGTATATGGTTCATATACAT

CCGCAGGCACGTAATAAAGCGAGGGGTTCGGGTCGAGGTCGGCTGTGAAACTCGAA AAGGTTCCGGAAAACAAAAAGAG

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TACAATCAACTCTCCGAGCCAAT

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AATTCAGGGTGGCTGATACCAAAATCAGCAGTGGTTGTTCGTCCACTTAAAAAATAAC
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gccca

## Complete Sequence of BSG 1057 (SEQ ID NO.: 2):

CAGACAGCTACCACATCAGCTTTGCTGGACACTGTCCGAGGAAACAACTCCT TGGTCAATGATCTAGCAAAGCGTCGTCT

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GGTGGATTGCGATCTTTAGAACTGGAATATCTGATGATGCAAATTCCCTACGG ATCATTGACTTATGACATAGGCGGGAA

TTTTGCATCGCATCTGTTCAAGGGACGAGCATATGTACACTGCTGCATGCCCA ACCTGGACGTTCGAGACATCATGCGGC

ACGAAGGCCAGAAAGACAGTATTGAACTATACCTTTCTAGGCTAGAGAGGGGGGGAAAACAGTCCCCAACTTCCAAAAG

GCAGCAATCAGGCAGAGTGTATGCCATTGCGCTACACAGCATATATGACATA CCAGCCGATGAGTTCGGGGCGCACTCT

TGAGGAAAAATGTCCATACGTGCTATGCCGCTTTCCACTTCTCCGAGAACCTG CTTCTTGAAGATTCATGCGTCAATTTG

GACGAAATCAACGCGTGTTTTTCGCGCGATGGAGACAAGTTGACCTTTTCTTT TGCATCAGAGAGTACTCTTAATTACTG

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TTCTTTTGTACAAAGGTGTGGCCCAT

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CGAGAGAATCCTCCTTGGGGATTCATCATCAGTCAATTACTGGTTTCCCAAAA TGAGGGATATGGTCATCGTACCATTAT

TCGACATTTCTTTGGAGACTAGTAAGAGGACGCGCAAGGAAGTCTTAGTGTCCAAGGATTTCGTGTTCACAGTGCTTAAC

CACATTCGAACATACCAGGCGAAAGCTCTTACATACGCAAATGTTTTGTCCTT CGTCGAATCGATCGAGGGTAAT

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GGAGATAGAGTCTTTAGAGCAGTTTCATATGGCGACGGCAGATTCGTTAATTC GTAAGCAGATGAGCTCGATTGTGTACA

CGGGTCCGATTAAAGTTCAGCAAATGAAAAACTTTATCGATAGCCTGGTAGC ATCACTATCTGCTGCGGTGTCGAATCTC

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GGACGGAGTTCCGGGCTGTGGAAAAACCAAAGAAATTCTTTCCAGGGTTAAT TTTGATGAAGATCTAATTTTAGTACCTG

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TGGAGAAGATCTTACCGTCGATGTTTACCCCTGTAAAGAGTGTTATGTGTTCC
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ACGTGAGAGACGGGGCCCATGGAACTTACAGAAGAAGTCGTTGATGAGTT CATGGAAGATGTCCCTATGTCGATCAGG

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ACAAATTTTCTGTCAGTGGAGAGGTGAAGGTGATGCTACATACGGAAAGCT TACACTTAAATTTATTTGCACTACTGGA

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GAAACGCATGACTTTTCAAGAGTGCCATGCCCGAAGGTTATGTACAGGAA CGCACTATATCTTCAAAGATGACGGGA

ACTACAAGACGCGTGCTGAAGTCAAGTTTGAAGGTGATACCCTTGTTAATCG TATCGAGTTAAAAGGTATTGATTTTAAA

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GAATGGAATCAAAGCTAACTTCAAAATTCGCCACAACATTGAAGATGGATCC GTTCAACTAGCAGACCATTATCAACAAA

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TGCATCGGATTTCTATGTGTATAGATATAATTCGACGCTTGATCCGTTGATCA CGGCGTTATTAAATAGCTTCGATACTA

GAAATAGAATAATAGAGGTTGATAATCAACCCGCACCGAATACTACTGAAAT CGTTAACGCGACTCAGAGGGTAGACGAT

GCGACTGTAGCTATAAGGGCTTCAATCAATAATTTGGCTAATGAACtGGTTCG TGGAACTGGCaTGTTCAATCAAGCAAG

## ${\tt CTTTGAGACTGCTAGTGGACTTGTCTGGACCACAACTCCGGCTACTTAGctattgtt}$

gtgagatttcctaaaataaagtc

actgaagacttaaaattcagggtggctgataccaaaatcagcagtggttgttcgtccacttaaatataacgattgtcata tctggatccaacagttaaaccatgtgatggtgtatactgtggtatggcgtaaaacaacggaaaagtcgctgaagacttaa aattcagggtggctgataccaaaatcagcagtggttgttcgtccacttaaaaataacgattgtcatatctggatccaaca gttaaaccatgtgatggtgtatactgtggtatggcgtaaaacaacggagaggttcgaatcctcccctaaccgcgggtagcggcca

are noted.

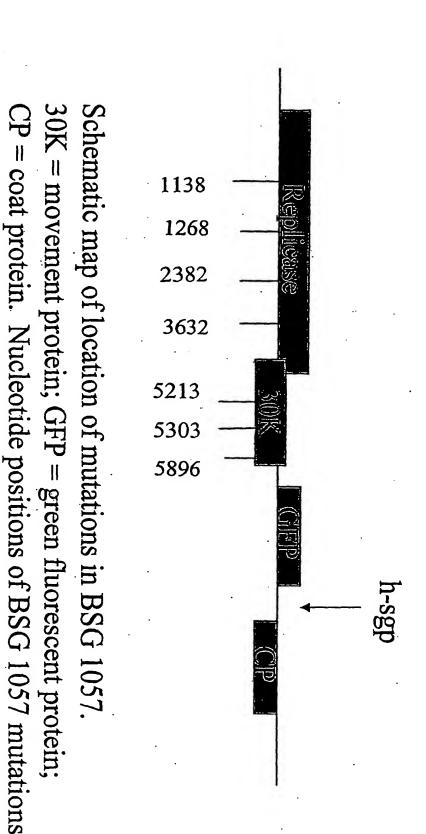




Figure 8